

Eashan Gandotra

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EXPERIENCE

- **Chicago Trading Company** Chicago, IL
Quantitative Researcher October 2024 - Present
 - Build and maintain production numerical models in C++, optimizing for computational performance and stability
 - Develop automated model calibration pipelines in Python using optimization and curve-fitting algorithms
 - Design predictive models using time series analysis, statistical learning, and feature engineering
 - Implement data pipelines and monitoring frameworks to track model performance in production
- **Chicago Trading Company** Chicago, IL
Quant Trading Analyst August 2023 - October 2024
 - Developed optimization algorithms for combinatorial matching problems
 - Completed internal coursework in statistics, data science, and predictive modeling
- **Chicago Trading Company** Chicago, IL
Quant Trading Analyst Intern May 2022 - August 2022
 - Built Python application for modeling correlation dynamics between related financial instruments
 - Won company hackathon award for developing neural network models to identify predictive signals in sports data
- **McKesson Corporation** Remote
Automation Engineer Intern May 2021 - August 2021
 - Built CI/CD pipelines and automation tools using Jenkins, Bash, and PowerShell

EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
B.S. in Mathematics, Minor in Computing and Intelligence August 2019 - May 2023
GPA: 3.96, Dean's List all semesters
- **Budapest Semesters in Mathematics** Budapest, Hungary
Research-oriented coursework in game theory, combinatorics, and geometry Spring 2022

PROJECTS & WRITING

- **Physics-Informed Neural Networks for PDEs:** Implementing PINNs to solve diffusion equations, validated against custom finite difference solver. Exploring transfer learning from options pricing to the heat equation.
github.com/eashang1/pinn-diffusion-pde
- **Mathematical Writing:** Expository papers on statistical learning, Ramanujan's summation, and olympiad inequalities. Available at eashang1.github.io
- **Game AI & Adversarial Agents:** Top 100 (of 50,000+) agents for Terminal competition using tree search, dynamic programming, and heuristic optimization
- **de Bruijn Sequence Card Magic:** Web application for combinatorial card magic using de Bruijn sequences. Advised by Dr. Matt Baker. Demo: eashang1.github.io/a_stuck_wizard

TECHNICAL SKILLS

- **Languages:** Python, C++, SQL
- **ML & Data Science:** PyTorch, scikit-learn, pandas, NumPy, time series analysis, regression, tree-based methods, feature engineering
- **Tools:** Git, Linux, Jenkins, L^AT_EX
- **Foundations:** Numerical methods, optimization, probability, statistics, linear algebra, algorithms

HONORS AND AWARDS

- **William Lowell Putnam Exam:** Top 500 (2020), top 1000 (2019, 2021, 2022) on premier undergraduate mathematics competition
- **ICPC North American Championship:** Competed on Georgia Tech's top undergraduate competitive programming team
- **Competitive Programming:** 500+ problems on Codeforces (peak rating: 1898), 500+ on Art of Problem Solving
- **AIME Qualifier:** Top 2.5% on AMC 12, scored 75th percentile on AIME